Appendix D

Conditions of Approval **Doty Mountain Pod**

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WYW116179 Anadarko E&P Company (AEPC)	AR Federal	17-91-9-14	T17N R91W Sec. 14 NESE
	AR Federal	17-91-11-14	T17N R91W Sec. 14 NESW
	AR Federal	17-91-13-14	T17N R91W Sec. 14 SWSW
	AR Federal	17-91-15-14	T17N R91W Sec. 14 SWSE
	AR Federal	17-91-9-22	T17N R91W Sec. 22 NESE
WYW137692 (AEPC)	AR Federal	17-91-1-22	T17N R91W Sec. 22 NENE
WYW141686 Double Eagle Petroleum Company (Double Eagle)	AR Federal	17-91-3-22	T17N R91W Sec. 22 NENW
	AR Federal	17-91-5-22	T17N R91W Sec. 22 SWNW
	AR Federal	17-91-7-22	T17N R91W Sec. 22 SWNE
	AR Federal	17-91-11-22	T17N R91W Sec. 22 NESW
	AR Federal	17-91-13-22	T17N R91W Sec. 22 SWSW
	AR Federal	17-91-15-22	T17N R91W Sec. 22 SWSE
WYW133658 (Double Eagle)	AR Federal	17-91-1-14	T17N R91W Sec. 14 NENE
	AR Federal	17-91-3-14	T17N R91W Sec. 14 NENW
	AR Federal	17-91-5-14	T17N R91W Sec. 14 SWNW
	AR Federal	17-91-7-14	T17N R91W Sec. 14 SWNE

GOVERNMENT CONTACTS

USDI, BUREAU OF LAND MANAGEMENT

Field Office: Address:	Rawlins P.O. Box 2407 Rawlins, Wyoming 82301		Office Hours:7:45 am to 4:30 pm				
Authorized Officer's Designated Representatives:							
Assistant Field M (Minerals & Land		Clare Miller	Home Phone Work Phone	(307) 324-2372 (307) 328-4245			
Petroleum Engir	neer:	Lloyd Chism	Home Phone Work Phone Cell Phone	(307) 328-4441 (307) 328-4227 (307) 320-8327			
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Pet. Engineer Tech.:	Bill Ashline	Home Phone Work Phone Cell Phone	(307) 324-6355 (307) 328-4263 (307) 320-7777				
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Resource Specialist:	Larry Jackson	Work Phone	(307) 328-4231				
In the event that the Petroleum Engineer named above is not available please contact the following:							
Petroleum Engineer:	Stuart Cerovski	Home Phone Work Phone	(307) 332-2408 (307) 332-8426				

A COPY OF THE APPLICATION FOR PERMIT TO DRILL AND THESE CONDITIONS OF APPROVAL MUST BE FURNISHED TO YOUR FIELD REPRESENTATIVE AND BE AVAILABLE ON SITE.

GENERAL PERMITTING REQUIREMENTS

1. All lease operations are subject to the terms of the lease and the lease stipulations, the regulations of 43 CFR Part 3100, Onshore Oil and Gas Orders, Notices to Lessees (NTLs), the approved APD and any written instructions or orders of the authorized officer. The following requirements are emphasized.

<u>Abandonment</u>: In the event abandonment of the hole is desired, oral approval may be granted by this office but must be followed within 5 days with a **Notice of Intention to Abandon (Form 3160-5)**. Unless the plugging is to take place immediately upon receipt of oral approval, the BLM Branch of Minerals must be notified at least 24 hours in advance of the plugging of the well in order that a representative can witness the plugging operation. The **Subsequent Report of Abandonment (Form 3160-5)** must be submitted within 30 days after the actual plugging of the wellbore, reporting where the plugs were placed and volumes of cement used, along with copies of the service company invoice and job log.

The operator shall promptly plug and abandon each newly completed, recompleted or producing well which is not capable of producing in paying quantities. No well may be temporarily abandoned for more than 30 days without prior approval of the authorized officer. When justified by the operator, the authorized officer may authorize additional delays, no one of which may exceed an additional 12 months. Upon removal of drilling or producing equipment from the site of a well, which is to be permanently abandoned, the surface of the lands disturbed shall be reclaimed in accordance with a plan first approved or prescribed by the authorized officer.

<u>Completion Report</u>: If the well is completed as a dryhole or as a producer, **Well Completion or Recompletion Report and Log (Form 3160-4)** must be submitted within 30 days after completion of the well or after completion of operations being performed, in accordance with **43 CFR 3160**. Copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample descriptions, daily drilling reports, daily completion reports, and all other surveys or data obtained and compiled during the drilling, completion, and/or workover operations, will be filed with **Form 3160-4**.

- 2. Approval of this APD does not warrant that any party holds equitable or legal lease title.
- 3. This permit is valid for a period of one year from the day of approval or until lease expiration/termination, whichever is shorter. If the permit terminates, any surface disturbance created under the application shall be reclaimed in accordance with the approved plan.
- 4. The spud date shall be reported to the BLM authorized officer's representative within 24 hours following spudding. A follow-up report on Form 3160-5 confirming the date of spud shall be promptly submitted to this office within 5 working days from date of spud.
- 5. Verbal notification shall be given to the BLM authorized officer's representative at least 24 hours in advance of pluggings, DSTs and/or other formation tests, BOP tests, running and cementing casing (other than conductor casing), and drilling over lease expiration dates.
- 6. Verbal notification shall be given to the BLM's resource specialist at least 48 hours in advance of access road/well pad construction, seeding, and the initiation of any reclamation work.

- 7. Operations that deviate from the approved APD shall receive prior written approval from the authorized officer. Emergency approval may be obtained orally but such approval does not waive the written report requirement.
- 8. All lease exploration, development, production and construction operations shall be conducted in a manner which conforms with all applicable federal, state, and local laws and regulations.
- 9. Historic, Cultural, and Paleontological Resources

The operator shall be responsible for informing all persons associated with this project that they shall be subject to prosecution for damaging, altering, excavating or removing any archaeological, historical, or vertebrate fossil objects or site. If archaeological, historical, or vertebrate fossil materials are discovered, the operator shall suspend all operations that further disturb such materials and immediately contact the authorized officer. Operations shall not resume until written authorization to proceed is issued by the authorized officer.

Within five working days, the authorized officer will evaluate the discovery and inform the operator of actions that will be necessary to prevent loss of significant cultural or scientific values.

The operator shall be responsible for the cost of any mitigation required by the authorized officer. The authorized officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the authorized officer that the required mitigation has been completed, the operator shall be allowed to resume operations.

10. <u>Hazardous Waste</u>: Those wastes that qualify as <u>exempt</u>, under the Resource Conservation and Recovery Act (RCRA), Oil and Gas Exemption, may be disposed of in the reserve pit. *Generally, oil or gas wastes are exempt if they 1) have been sent downhole and then returned to the surface during oil/gas operations involving exploration, development, or production, or 2) have been generated during the removal of produced water or other contaminants from the oil/gas production stream.* The term hazardous waste, as referred to above, is defined as a <u>listed</u> (40 CFR 261.31-33) or <u>characteristic</u> (40 CFR 261.20-24) hazardous waste under RCRA.

ADDITIONAL PERMITTING REQUIREMENTS

DRILLING PLAN

BOP

- 1. All BOPE shall meet minimum standards for well control requirements as set forth in Onshore Order No. 2.
- 2. The BOPE shall be tested to a minimum of 1000 psi.
- 3. A Sundry Notice (Form 3160-5), along with a copy of the BOP test report, shall be submitted to this office within five working days following the test. Test reports shall include time and pressure charts and accumulator tests.

Casing and Cementing

- The surface casing shall be cemented back to surface. In the event cement does not circulate to surface or fall back of the cement column occurs, remedial cementing shall be done to cement the casing back to surface.
 - Pea gravel or other material shall not be used to fill up around the surface casing in the event cement fall back occurs.
- 2. A Sundry Notice (Form 3160-5), along with a copy of the service company's materials ticket and job log, shall be submitted to this office within five working days following the running and cementing of all casing strings.
- 3. All casing strings shall be tested, prior to drilling out the casing shoe, to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the internal yield pressure of the casing.
- 4. Any change in the casing and cement design will be approved by the Authorized Officer prior to running casing and cementing.
- 5. No freshly hard banded rough carbide pipe/collars will be rotated in the surface casing.

Mud Programs

1. Sufficient quantities of mud materials shall be maintained at the well site, at all times, for the purpose of assuring well control.

Other

- A summary of the drilling operation and/or completion operation shall be submitted on Sundry Notice (Form 3160-5), to this office, along with letter size copies of the daily drilling reports and/or daily completion reports, on a weekly basis.
- 2. Any permanent plug placed in the well during drilling and/or **completion** operations must have **prior** approval of the Authorized Officer.
- 3. A copy of all logs, formation test reports, stimulation reports, etc., shall be promptly submitted to this office.

4. Gas produced from this well may not be vented or flared beyond an initial test period, 30 days or 50 MMcf, whichever first occurs, without approval of the Authorized Officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue the venting or flaring as uneconomic is granted, and you shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

SURFACE USE PLAN OF OPERATIONS

A COPY OF THE APPLICATION FOR PERMIT TO DRILL, AND THESE CONDITIONS OF APPROVAL MUST BE FURNISHED TO YOUR FIELD REPRESENTATIVE AND BE AVAILABLE ON SITE.

The Companies shall have a copy of the, *Decision Record and Finding Of No Significant Impact* for the *Atlantic Rim Natural Gas Project, Doty Mountain Pod EA*, available at all construction and drilling projects.

All of the *Project-Wide Mitigation Measures and* Procedures as found in the *Atlantic Rim Natural Gas Project, Doty Mountain Pod EA and* this *Decision Record and Finding Of No Significant Impact shall be followed.*

Existing Roads

- 1. The Companies shall have permission the use (cross) the private land involved in this project. Upon request, the Authorized Officer shall be provided with copies of any agreement entered into.
- 2. The Operator shall enter into a maintenance agreement with other authorized users of the access road(s), if required by the BLM Authorized Officer. The Operator shall share the maintenance costs in dollars, equipment, materials, and/or labor proportionate to the Operator's use relative to other authorized users. Upon request, the BLM Authorized Officer shall be provided with executed copies of any maintenance agreement.

Roads to be Constructed or Reconstructed

- The sub-base of the proposed road shall be thoroughly compacted (to at least 85% maximum dry density), and surfaced with at least four inches of gravel prior to drilling. A temporary variance to this condition of approval may be considered if the Operator requests such a variance, in advance and in writing, during periods when soil moisture is low.
- All road segments must be completed, including any required surfacing, before the drilling rig or other drilling equipment moves onto the pad. This includes surfacing the road with four inches of gravel and thoroughly compacting the road's sub-base to 85% maximum dry density, this will allow the road to stand up to the heavy equipment used during the drilling of the well.
- 3. Topsoil and vegetation will be windrowed to the side of the road. After the road is crowned and ditched with a 0.03-0.05 ft/ft crown, the topsoil will be pulled back onto the cut slopes of the road right-of-way so there is no berm left at the top of the cut slope.
- 4. Wing ditches shall be placed in accordance with the chart on Illustration 9 in BLM's 9113 Road Manual. The 10 erosion index shall be used.
- If any additional erosion occurs during the life of the project, additional wing ditches and culverts will be placed in the access roads as the need arises or as directed by BLM's Authorized Officer.
- 6. Maintenance work will be will done expeditiously after discovery.
- 7. Cattleguards will be installed perpendicular to the travelway and will be set on treated timber, precast concrete or cast in place concrete bases. Cattleguards shall be at least

- as wide as the road travelway, in this case a minimum of 14 feet wide, and 8 feet long. The cattleguard must be deigned to minimum AASHTO H-20 standards.
- 8. Construction-related traffic shall be restricted to routes approved by the Authorized Officer. Cross-country vehicle travel will not be permitted unless prior written approval is given by the Authorized Officer.
- 9. Proposed roadway centerline stakes shall be placed intervisibly at no more than 100-foot intervals along the alignment of the proposed road.
- 10. No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support equipment. If equipment (including licensed highway vehicles) creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.

Existing and/or Proposed Facilities If Productive

- All production facilities installed on location that have the potential to leak or spill oil, glycol, produced water, or other fluid, which may constitute a hazard to public health or safety, shall be placed within an appropriate containment or diversionary structure. The structure shall be sufficiently impervious to oil, glycol, produced water, or other toxic fluid. It shall be installed so that any spill or leakage would not drain, infiltrate, or otherwise escape to ground water, surface water, or navigable waters before cleanup is completed
- 2. A diagram showing the proposed production facilities, with accurate reference to their spatial orientation on the proposed well pad, shall be submitted using a Sundry Notice to the BLM Authorized Officer for review and approval prior to their construction.
- 3. All above-ground structures, production equipment, tanks, transformers, insulators, not subject to safety requirements shall be painted to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors." The color selected is Carlsbad Canyon (2.5Y 6/2).

WATER HANDLING AND DISPOSAL FACILITIES AND INJECTION WELLS

No livestock watering system is being approved with this proposal.

Pipeline Systems

- 1. The delivery pipeline proposal, the gas-gathering pipeline system, the water gathering system, and the electrical line system, will be submitted to the BLM Authorized Officer by right-of-way application for review and approval.
- 2. The pipeline system should be installed within 25 feet of the centerline of the adjacent road, where ever a pipe or electrical system follows a road.
- 3. The centerline and exterior limits of the delivery pipeline right-of-way shall be surveyed and clearly marked prior to any surface disturbing activities.
- 4. Pipeline trenches shall be compacted during backfilling.
- 5. Clearing along the gas-gathering pipeline system, the water gathering system, and the electrical line system route, shall be limited to removal of above ground vegetative parts.

- 6. Drainage crossings shall be constructed to prevent any blocking, diversion, or restriction of the existing channel. Material removed shall be stockpiled for use in reclamation of the crossing.
- Construction-related traffic shall be restricted to approved routes. Cross-country vehicle travel shall not be allowed.

Compressor Station Facility

- No more compression that is needed to produce the Doty Mountain Pod will be authorized.
- 2. Compressors shall be muffled using the best available methods. Noise levels shall be limited to no more than 10 decibels on the A-weighted scale (dBA) above background levels at leks for greater sage grouse. Compressor engines shall be enclosed in a building and located at least 1,320 feet away from sensitive receptors or sensitive resource areas to comply with these limits on noise levels.

Produced Water Storage Tanks

- 1. The tanks are not to be used for disposal of water from other sources without the prior approval of this office.
- Any discharge from the tank will be reported to BLM as required by NTL-3A.

Methods for Handling Waste Disposal

- 1. The Operator shall comply with the Hazardous Materials Management Summary provided in the *Continental Divide/Wamsutter II EIS* for hazardous materials that may potentially be used, produced, transported, disposed of, or stored on the well location.
- 2. The Operator shall comply with all federal, state, and local laws and regulations pertaining to disposal of human and solid wastes.
- 3. Fluids containing any hydrocarbons (condensate, diesel, etc.) shall not enter the reserve pit or production pit.
- 4. Produced fluids and fracturing fluids shall be contained in test tanks during completion and testing. This fluid shall not be placed into the reserve pit without prior written approval from the BLM Authorized Officer.
- 5. Within 90 days of initial production start-up, the Operator shall submit to the BLM Authorized Officer an analysis of the produced water. In addition, facilities/pits used for the disposal of produced water shall be approved, as outlined in Onshore Oil and Gas Order No. 7, using a Sundry Notice.
- 6. No fluids containing hydrocarbons or hazardous substances shall be allowed to accumulate in the flare pits.
- 7. All production facilities installed on location that have the potential to leak or spill oil, glycol, produced water, or other fluid, which may constitute a hazard to public health or safety, shall be placed within an appropriate containment or diversionary structure. The structure shall be sufficiently impervious to oil, glycol, produced water, or other toxic fluid. It shall be installed so that any spill or leakage would not drain, infiltrate, or otherwise escape to ground water, surface water, or navigable waters before cleanup is completed

8. All storage tanks and compressor facilities, designed to contain oil, glycol, produced water, or other fluid which may constitute a hazard to public health or safety, shall be surrounded by a secondary means of containment for the entire contents of the largest single tank in use, plus 1 foot of freeboard. The containment or diversionary structure shall be impervious to any oil, glycol, produced water, or other toxic fluid for 72 hours and would be constructed so that any discharge from a primary containment system would not drain, infiltrate, or otherwise escape to ground water, surface water, or navigable waters before cleanup is completed.

Well Site Layout

- 1. For the protection of livestock and wildlife, all pits and open cellars shall be fenced. Fencing shall be in accordance with BLM specifications. Netting shall be placed over all open production pits to eliminate any hazard to migratory birds or other wildlife. Netting is also required over reserve pits which have been identified as containing oil or hazardous substances [CERCLA Section 101(14)]. The mesh diameter of netting shall be no larger than one inch. The reserve pit shall be fenced on three sides during drilling, and the working side shall be fenced immediately after the drilling rig is moved. Fencing shall meet BLM specifications. The reserve pit shall remain fenced until reclamation is initiated.
- 2. If water is encountered within 50 feet of the surface, during construction of the rathole, reserve pit, or drilling of a water well, the Operator must contact the BLM Authorized Officer.
- 3. No flaring of gas will be allowed into the reserve pit without prior approval

Surface Reclamation Plans

- 1. Prior to reclamation or abandonment of the well site, a joint inspection of the disturbed area will be held. This inspection will be held to review the existing plan
- 2. Pits containing drilling muds and fluids shall be allowed to dry. Fluids remaining after two years shall be moved to an approved site. Other options, if approved by the Authorized Officer, may include fly-ash solidification or sprinkler evaporation over the pit containing the fluid.

Producing Wells

- 1. Should the well become productive, all disturbed areas not needed for production operations shall be reclaimed (partial reclamation) as soon as possible, but no longer than within 2 years from the date production facilities are completed. The production pad shall be as small as possible but no larger than one and a half acres.
- 2. After the well is plugged and abandoned, the site shall be reclaimed as soon as possible, but no longer than within 2 years from the date of plugging.
- 3. Seeding and other reclamations requirements are listed in the following section also apply.

Plugged and Abandoned Wells

- 1. Should the well be plugged and abandoned, fencing of the reseeded well site will be required to exclude grazing and to help vegetation success.
- 2. **After** recontouring the site, to the original contour that existed before the pad was constructed, final grading and replacement of topsoil, the entire surface of the well site and access road will be ripped to a depth of 18 to 24 inches on the 18 to 24 inch centers.
- 3. The holder shall seed all disturbed areas with the seed mixture(s) listed in the APD. The seed mixture(s) shall be planted in the amounts specified in pounds of pure live seed (PLS)/acre. There shall be no primary or secondary noxious weed seed in the seed mixture. Seed shall be tested and the viability testing of seed shall be done in accordance with State law(s) and within 9 months prior to purchase. Commercial seed shall be either certified or registered seed. The seed mixture container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer. If a drill is used the drill shall be equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop to the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Seed shall be broadcast if possible. When broadcasting the seed, the pounds per acre noted below are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of the second growing season after seeding. The Authorized Officer is to be notified a minimum of three days prior to seeding of the project.
- 4. The travelway of the access road to be rehabilitated shall be ripped to a depth of 18 inches, recontoured to approximately the original contour of the ground and seeded in accordance with reclamation portions of the APD and these COAs.

Waterbars will be constructed on all disturbed areas to: (1) simulate the imaginary contour lines of the slope with a grade of one or two percent; (2) drain away from the disturbed area; and (3) begin and end in undisturbed vegetation or soil.

Wildlife

- 1. Construction, drilling and other activities potentially disruptive to strutting and nesting greater sage grouse are prohibited during the period of March 1 to June 30 for the protection of greater sage grouse nesting areas. This condition shall be applied to the following wells: AR Federal 1791-3-22, AR Federal 1791-5-22, AR Federal 1791-13-22, AR Federal 1791-13-22, and AR Federal 1791-15-22. This also applies to the access road for the pod.
- 2. Construction, drilling, reclamation and other activities are prohibited during the reproductive period of April 10 to July 10 for mountain plover. This condition shall be applied to the following wells: AR Federal 1791-1-22, AR Federal 1791-5-22, and AR Federal 1791-13-22.
- 3. Construction, drilling and other activities potentially disruptive to nesting raptors are prohibited during the period of February 1 to July 31 for the protection of raptor nesting areas. This condition will be included in the Right-of-Way for the access road to the pod and the transportation gas pipeline for the pad.

4. If a raptor tries to nest on or in any well buildings or facilities, the Operator shall immediately notify the BLM Authorized Officer

Please be advised that due to limits on the available time of qualified personnel, the unpredictability of wildlife, and inclement weather conditions, requests for exceptions to impending wildlife stipulations will only be considered in the event of extraordinary and unavoidable occurrences over which the requestor has little or no control. Additionally, wells must be spudded in a time frame which would allow for reasonably normal drilling and completion of the well prior to the beginning date of wildlife protection stipulations

Cultural

1. The operator shall have a BLM approved archaeologist on-site to monitor the access road, well pad, and pipeline(s) construction. This condition shall be applied to the following wells: AR Federal 1791-1-22, AR Federal 1791-5-22, AR Federal 1791-11-22, AR Federal 1791-13-22, and AR Federal 1791-11-14.

Other

- 1. The Companies would muffle and maintain all motorized equipment using Best Management Practices
- 2. All stationary machinery that makes noise shall be muffled using the best available methods. Noise levels shall be limited to no more than 10 decibels on the A-weighted scale (dBA) above background levels at leks for greater sage grouse. Machinery shall be located at least 1320 feet away from sensitive receptors or sensitive resource areas to comply with these limits on noise levels
- Facilities approved by this APD and/or Sundry Notice that are no longer included within the lease, due to a change in the lease or unit boundary shall be authorized with a rightof-way.
- 4. The Operator shall have a qualified individual to serve as Compliance Coordinator on-site during active operations. This individual will be responsible for ensuring that all requirements of the Surface Use Plan and appropriate Conditions of Approval are applied.
- The construction of the well pad and all roads constructed or reconstructed on public lands shall be monitored by a licensed professional engineer or a qualified inspector (not the dirt contractor) to ensure that the construction of the well pad and road meets Bureau of Land Management standards as outlined in the approved APD.

Miscellaneous Permitting Requirements

- All survey monuments found within the area of operations shall be protected. Survey monuments include, but are not limited to 1) General Land Office and Bureau of Land Management Cadastral Survey Corners, reference corners, witness points, U.S. Coast and Geodetic benchmarks and triangulation stations, military control monuments, and recognizable civil (both public and private) survey monuments. In the event of obliteration or disturbance of any survey monuments, the incident shall be reported in writing to the BLM Authorized Officer.
- 2. The Operator shall be held responsible for the prevention and suppression of fires on public lands caused by its employees, contractors, or subcontractors. During conditions

of extreme fire danger, surface use operations may be either limited or suspended, or additional measures may be required by the BLM Authorized Officer. The occurrence of any wildland fire shall be reported immediately to the BLM Fire Dispatch, 1 (800) 295-9953.

- 3. No flaring of gas shall be allowed into the reserve pit without prior approval by the BLM Authorized Officer.
- 4. The Operator shall comply with all federal, state, and local laws, rules, and regulations, including the acquisition of any necessary federal, state, and/or local permits.